

**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

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Washington, D.C. 20231

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\*101717987A\*

NOV 30, 2001

PTAS

APPLIED MATERIALS, INC.  
ROBERT W. MULCAHY  
PATENT COUNSEL, M/S 2061  
P.O. BOX 450-A  
SANTA CLARA, CA 95052

RECORDED 04/26/2001

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/26/2001

REEL/FRAME: 011791/0794  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

PARIKH, SUKETU A.

DOC DATE: 10/01/1998

**ASSIGNEE:**

APPLIED MATERIALS, INC.  
3050 BOWERS AVE  
M/S 2061  
SANTA CLARA, CALIFORNIA 95054

SERIAL NUMBER: 09843419  
PATENT NUMBER:

FILING DATE: 04/26/2001  
ISSUE DATE:

MARCUS KIRK, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

COMPUTER ENTERED  
AUG - 8 2001

**BEST AVAILABLE COPY**

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	Suketu A. Parikh 4624 Aviara Court San Jose, California 95135	2)	
3)		4)	
5)		6)	

(hereinafter referred to as Assignors), have invented a certain invention entitled:

**"TECHNIQUES FOR TRIPLE AND QUADRUPLE DAMASCENE FABRICATION "**

executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings,

priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>1<sup>st</sup> October</u> , 1998	<u>Suketu A. Parikh</u> Suketu A. Parikh
2)	_____, 1998	_____ @
3)	_____, 1998	_____ @
4)	_____, 1998	_____ @
5)	_____, 1998	_____ @
6)	_____, 1998	_____ @

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp.)

NOV 24 2004



101717987

U.S. Department of Commerce  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

Suketu A. Parikh

Date

10/01/1998

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date:

SEE ABOVE

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.

A Corporation of the State of Delaware

Street Address: 3050 Bowers Ave

Internal Address: M/S 2061

City: Santa Clara State: CA Zip: 95054

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: 4-26-01 (Date of Filing)

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: APPLIED MATERIALS, INC

Internal Address: PATENT COUNSEL, M/S 2061

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account

50-1074

8. Deposit account number:

50-1074

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT W. MULCAHY Reg. No. 25,436

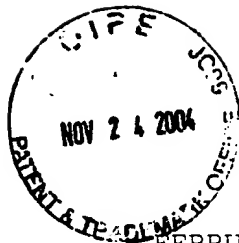
Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231



PDV



2900  
UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

FEBRUARY 08, 1999

PTAS



\*100857315A\*

APPLIED MATERIALS, INC.  
ROBERT W. MULCAHY, MS/2061  
LEGAL AFFAIRS DEPT.  
P.O. BOX 450A  
SANTA CLARA, CA 95052

FEB 24 1999

COMPUTED ENTRY  
FEB 23 1999  
UNITED STATES PATENT AND TRADEMARK OFFICE  
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RECORDATION DATE: 10/01/1998

REEL/FRAME: 9515/0042  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

PARIKH, SUKETU A.

DOC DATE: 10/01/1998

ASSIGNEE:

APPLIED MATERIALS, INC.  
3050 BOWERS AVE.  
SANTA CLARA, CALIFORNIA 95054

SERIAL NUMBER: 09165233  
PATENT NUMBER:

FILING DATE: 10/01/1998  
ISSUE DATE:

JACQUELINE MOORE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	Suketu A. Parikh 4624 Aviara Court San Jose, California 95135	2)	
3)		4)	
5)		6)	

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***"TECHNIQUES FOR TRIPLE AND QUADRUPLE DAMASCENE FABRICATION "***

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NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings,

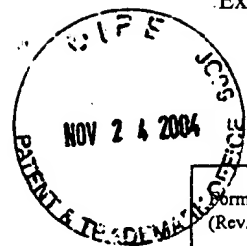
priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>1<sup>st</sup> October</u> , 1998	<u>Suketu A. Parikh</u> Suketu A. Parikh
2)	_____, 1998	_____ @
3)	_____, 1998	_____ @
4)	_____, 1998	_____ @
5)	_____, 1998	_____ @
6)	_____, 1998	_____ @

Form PTO-1595  
(Rev. 06/93)RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. Department of Commerce  
Patent and Trademark Office

OMB. No. 0651-0011 (Exp. 04/94)

Attorney Docket No.: 002900/PDD/PSI/MBE

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Suketu A. Parikh

10-1-98

## 2. Name and address of receiving party(ies):

Applied Materials, Inc.  
3050 Bowers Ave.  
Santa Clara, CA 95054

No - Additional name(s) and address(es) attached.

No - Additional name(s) of conveying party(ies) attached.

## 3. Nature of conveyance:

☒ Assignment      ☐ Merger  
☐ Security Agreement      ☐ Change of Name  
☐ Other:

Execution Date:

## 4. Application number(s) or patent number(s):

☒ This document is being filed together with a new application, the  
☐ Patent Application Serial No.(s): filed on  
☐ Patent No.(s):  
☐ Additional numbers attached.

execution date of the application is: 10-1-98

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
P.O. Box 450A  
Santa Clara, CA 95052

## 6. Total number of applications and patents involved: 1

## 7. Total fee(s) (37 CFR §§ 1.21(h) and 3.41):

The Commissioner is hereby authorized to charge Applied Materials, Inc. Deposit Account No.: 01-1651 in the amount of \$40.00. An originally executed duplicate of this transmission is enclosed for this purpose.

## 8. Authorization to Charge Additional Fees:

☐ The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication and which may be required under 37 CFR §§ 1.21(h) and 3.41 to Applied Materials, Inc. Deposit Account No. 01-1651. An originally executed duplicate of this transmittal is enclosed for this purpose.

## 9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Dated: 10/1/98

Signature:

Name: Robert W. Mulcahy

Reg. No: 23,436

Total number of pages including cover sheet, attachments, and documents: Recordation form cover sheet + assignment(s)

JC511 U.S. PTO  
09/165233

10/01/98



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